

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P459169

Luminaire Tested: **GALN-SA6C-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39057 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

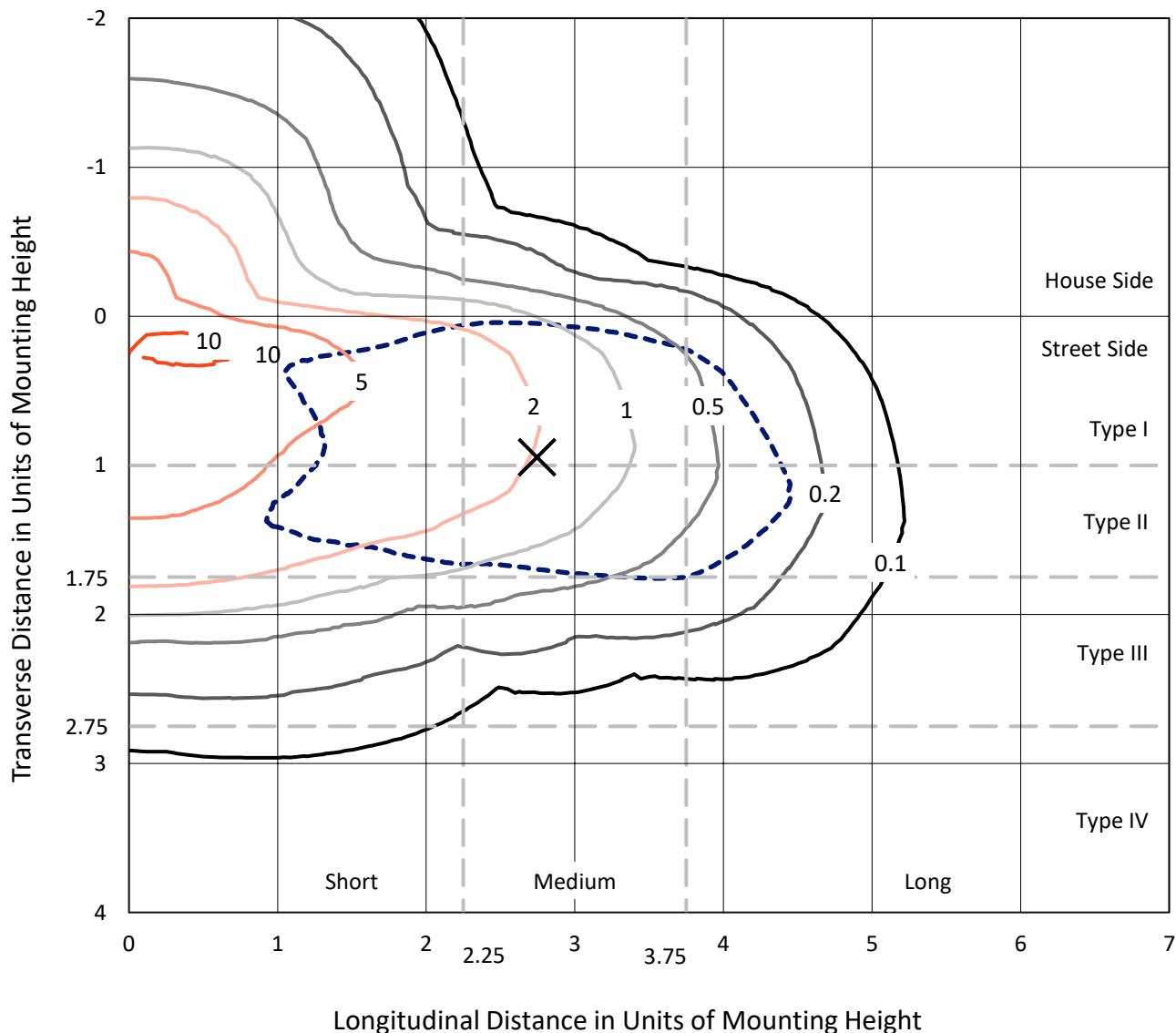
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

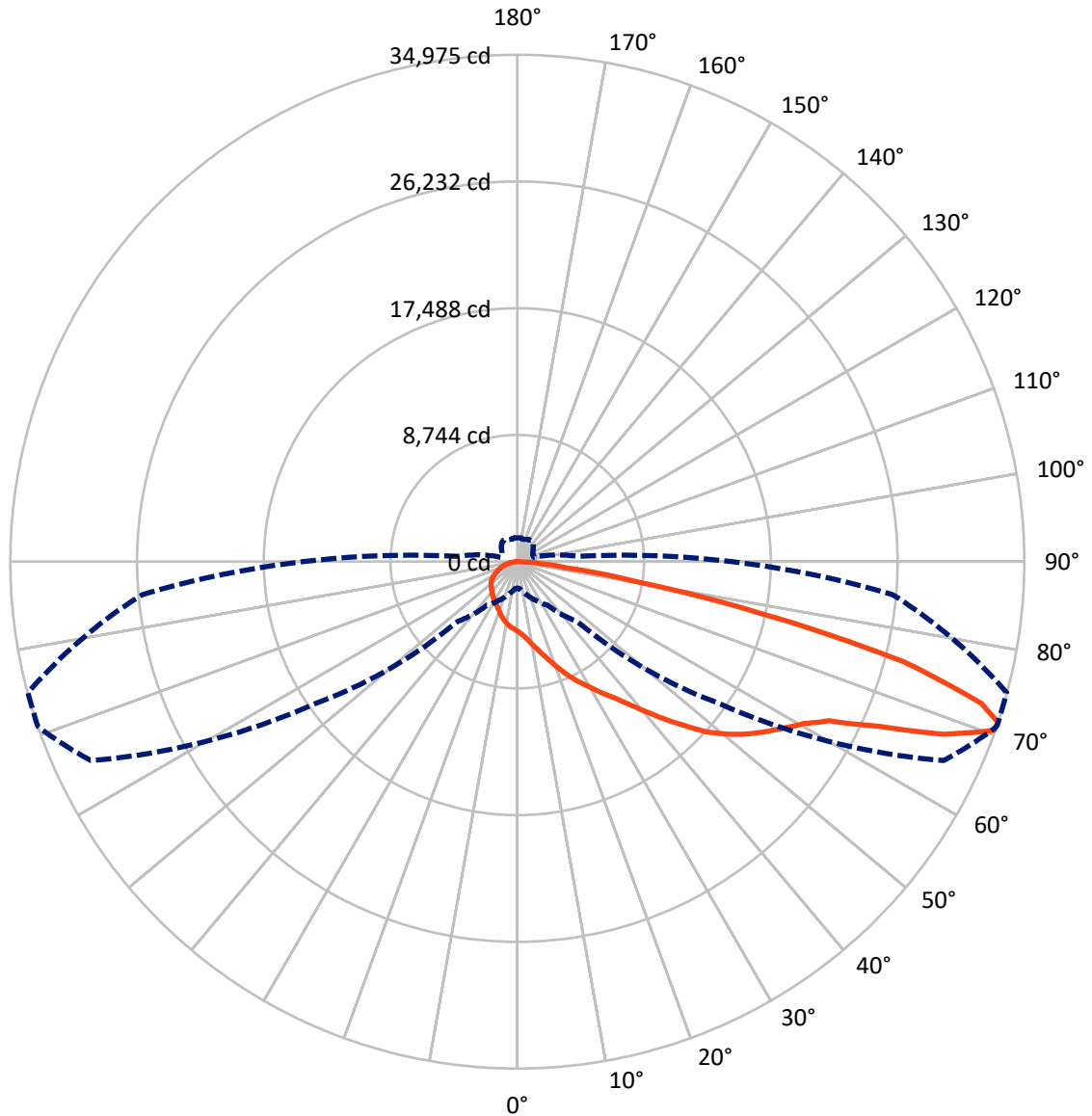
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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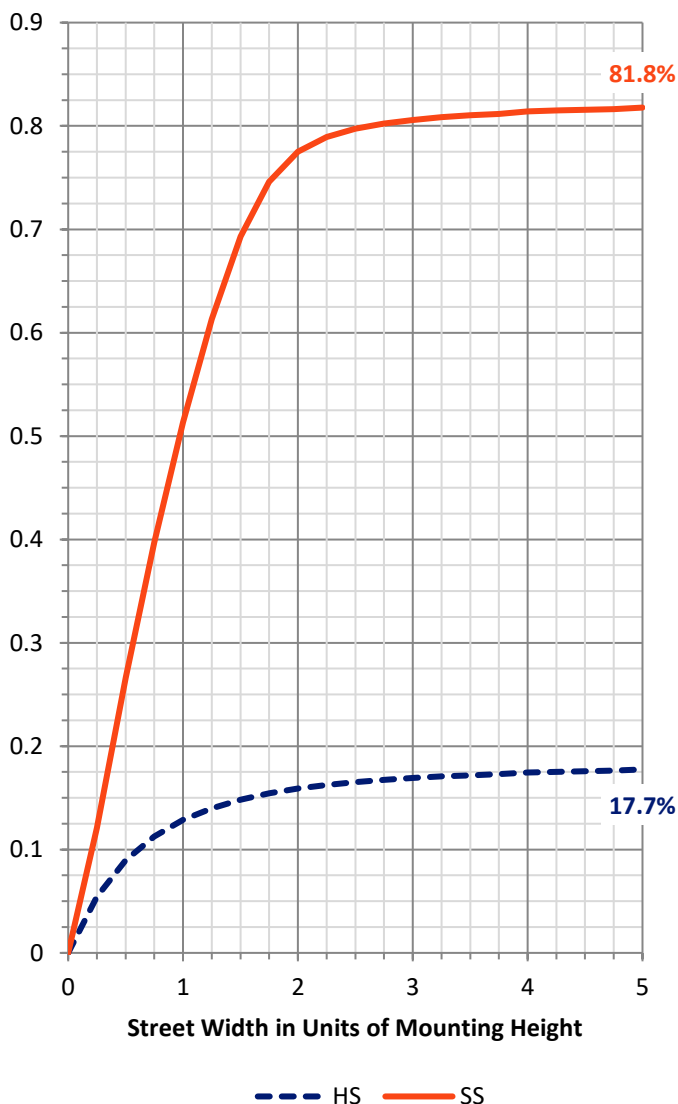
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7024.3	0.0	7024.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	32032.7	0.0	32032.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	39057.0	0.0	39057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.3	1.2
10°-20°	1563.7	4.0
20°-30°	2732.7	7.0
30°-40°	4064.5	10.4
40°-50°	5988.6	15.3
50°-60°	8384.1	21.5
60°-70°	9377.3	24.0
70°-80°	5728.0	14.7
80°-90°	736.8	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39057.0	100.0
0°-180°	39057.0	100.0

Coefficient of Utilization



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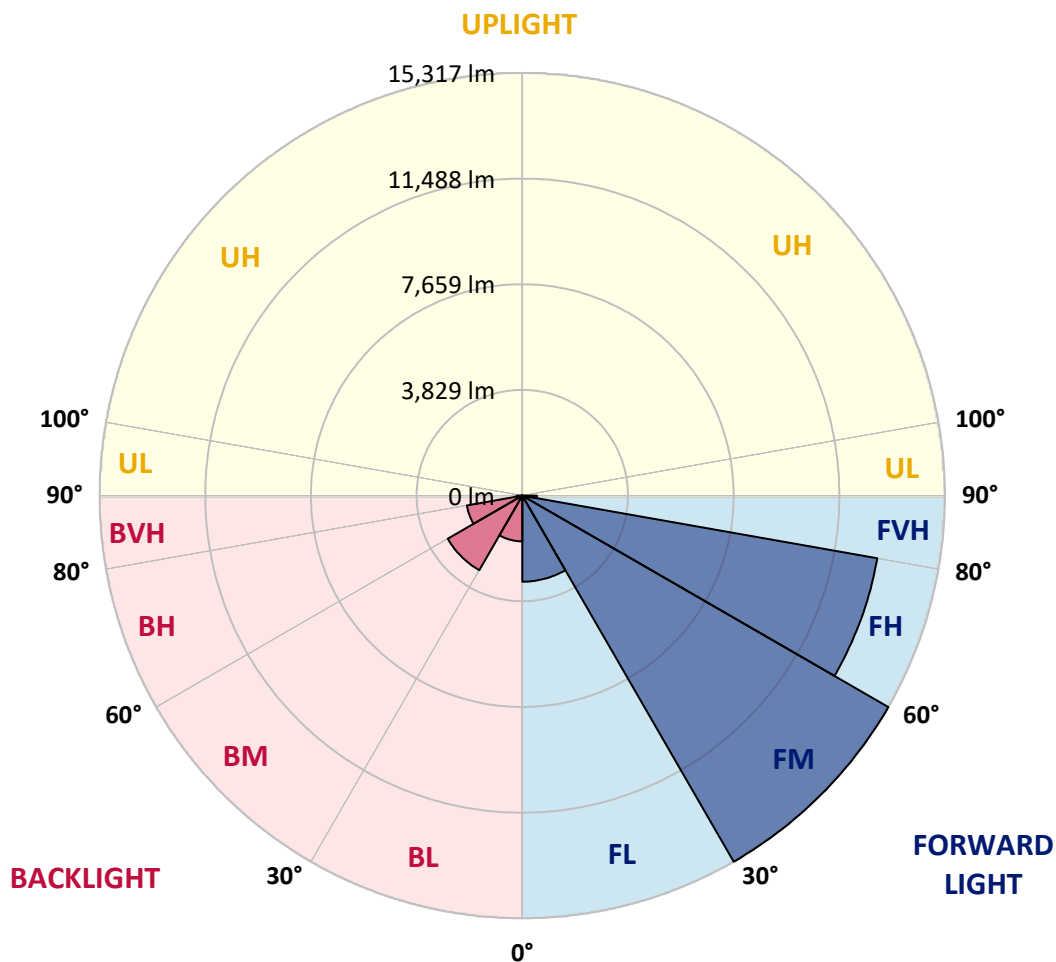
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3120.7	8.0			
FM	(30°-60°)	15317.4	39.2			
FH	(60°-80°)	13064.4	33.4			G5
FVH	(80°-90°)	530.2	1.4			G4/750
BL	(0°-30°)	1657.0	4.2	B3/2500		
BM	(30°-60°)	3119.8	8.0	B3/5000		
BH	(60°-80°)	2040.9	5.2	B3/2500		G3/2500
BVH	(80°-90°)	206.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5
2.5°	5321.6	5295.8	5297.9	5261.4	5214.2	5162.7	5089.7	5025.3	4973.8	4943.7	4855.7
5°	5896.9	5871.1	5838.9	5759.5	5725.1	5598.5	5437.5	5291.5	5179.9	5117.6	4941.6
7.5°	6362.7	6356.2	6347.7	6302.6	6214.6	6038.5	5901.1	5647.8	5482.6	5364.5	5064.0
10°	6650.3	6661.1	6667.5	6676.1	6639.6	6547.3	6358.4	6038.5	5828.2	5677.9	5222.8
12.5°	6796.3	6807.0	6843.5	6923.0	6972.3	6961.6	6807.0	6493.6	6203.8	6006.3	5392.4
15°	6886.5	6903.6	6968.0	7073.2	7238.5	7343.7	7268.6	6978.8	6661.1	6427.1	5594.2
17.5°	6985.2	7004.5	7075.4	7225.6	7442.4	7670.0	7751.6	7502.6	7156.9	6877.9	5819.6
20°	7041.0	7066.8	7167.7	7365.2	7618.5	7949.1	8219.5	8088.6	7710.8	7401.7	6079.3
22.5°	7131.2	7152.6	7238.5	7448.9	7751.6	8165.9	8687.5	8659.6	8326.9	7927.6	6364.8
25°	7375.9	7410.2	7453.2	7579.8	7871.8	8387.0	9076.0	9269.2	8923.6	8477.1	6626.7
27.5°	7837.4	7865.3	7863.2	7880.4	8045.7	8578.0	9413.1	9872.5	9516.1	9033.1	6880.0
30°	8363.4	8374.1	8382.7	8344.0	8380.5	8773.4	9722.2	10469.2	10112.9	9604.1	7101.1
32.5°	9003.1	9024.5	8951.5	8852.8	8822.7	9063.2	9977.6	11066.0	10819.1	10183.7	7320.1
35°	9758.7	9814.5	9666.4	9492.5	9370.1	9479.6	10321.1	11675.6	11542.6	10924.3	7609.9
37.5°	10621.6	10690.3	10552.9	10211.6	10037.7	10067.8	10769.8	12429.1	12457.0	11768.0	8041.4
40°	11327.9	11418.0	11422.3	10939.3	10675.3	10709.7	11338.6	13240.6	13560.4	12811.2	8550.1
42.5°	11793.7	11881.7	11974.0	11690.7	11413.8	11609.1	12001.9	14120.7	14801.2	14077.8	9260.7
45°	12304.6	12384.0	12435.6	12306.8	12152.2	12658.8	12802.6	15056.6	16123.5	15492.4	10037.7
47.5°	12897.1	12985.1	13034.5	12912.1	12854.2	13579.7	13665.6	15930.3	17536.0	16866.3	10896.4
50°	13687.1	13753.6	13727.8	13650.6	13637.7	14286.0	14494.2	16748.2	18701.6	18345.3	11787.3
52.5°	14670.2	14749.7	14777.6	14668.1	14618.7	14790.4	15161.8	17493.1	19762.1	19616.1	12738.2
55°	15264.9	15391.5	15816.5	15988.3	16106.3	15443.0	15880.9	18315.2	20713.1	20955.6	13760.0
57.5°	14502.8	14665.9	15616.9	16475.6	17585.4	17074.5	16900.6	19173.9	21664.0	22254.4	14983.6
60°	12643.8	12680.3	13906.0	15488.1	17720.6	19171.8	19027.9	20539.2	22694.4	23563.8	16595.8
62.5°	8771.2	8848.5	10297.5	12822.0	16050.5	19927.4	22647.2	22896.2	24171.3	25523.7	18959.2
65°	4523.0	4422.1	5742.3	8058.5	12100.7	18132.8	25579.5	27230.3	27374.1	28589.1	22286.6
67.5°	2784.2	2829.3	3447.5	4705.5	7154.8	13178.3	25272.5	32526.1	31768.3	32352.2	25375.6
70°	2090.8	2146.7	2571.7	3220.0	4362.0	7534.8	20324.5	33809.8	34868.1	34717.8	26315.8
71°	1818.2	1876.2	2318.4	2930.2	3664.3	5815.3	17123.9	32466.0	34975.4	34949.7	25961.6
72.5°	1549.9	1586.4	1932.0	2481.5	3089.0	4076.5	12864.9	29117.2	33483.5	34340.0	24697.2
75°	1217.2	1245.1	1399.6	1893.3	2432.2	2503.0	6903.6	21829.3	27500.8	29132.2	20560.6
77.5°	991.8	1011.1	1090.5	1406.1	1876.2	1773.1	3621.4	14208.7	17229.0	18871.2	12111.4
80°	787.8	809.3	856.5	953.1	1406.1	1264.4	1728.1	7199.9	8322.6	8305.4	4834.3
82.5°	611.8	618.2	674.0	699.8	961.7	897.3	935.9	3048.2	3376.7	3488.3	1745.2
85°	386.4	405.7	596.8	536.7	575.3	525.9	461.5	1210.7	1491.9	1470.5	697.7
87.5°	118.1	124.5	201.8	227.5	255.5	229.7	169.6	356.3	435.8	472.3	173.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5
2.5°	4821.4	4797.8	4714.1	4645.4	4581.0	4510.1	4450.0	4432.8	4417.8	4411.4	4409.2
5°	4866.5	4795.6	4630.3	4495.1	4387.8	4289.0	4226.8	4198.9	4170.9	4170.9	4179.5
7.5°	4930.9	4802.1	4546.6	4344.8	4209.6	4117.3	4072.2	4067.9	4074.3	4080.8	4082.9
10°	5001.7	4797.8	4424.3	4173.1	4052.9	4009.9	4012.1	4048.6	4082.9	4108.7	4113.0
12.5°	5070.4	4772.0	4280.4	4012.1	3934.8	3943.4	4003.5	4085.1	4151.6	4188.1	4190.3
15°	5147.7	4731.2	4106.5	3859.7	3833.9	3900.5	4012.1	4136.6	4237.5	4297.6	4304.0
17.5°	5212.1	4662.5	3924.1	3711.6	3743.8	3866.1	4020.7	4181.7	4304.0	4379.2	4392.1
20°	5285.1	4574.5	3735.2	3569.9	3662.2	3827.5	4003.5	4177.4	4304.0	4377.0	4394.2
22.5°	5343.0	4450.0	3554.9	3454.0	3589.2	3780.3	3945.5	4085.1	4188.1	4226.8	4252.5
25°	5366.6	4293.3	3385.3	3359.5	3531.2	3703.0	3814.6	3894.0	3926.2	3921.9	3932.7
27.5°	5353.8	4113.0	3239.3	3284.4	3458.3	3582.8	3638.6	3632.1	3574.2	3520.5	3546.3
30°	5300.1	3898.3	3116.9	3207.1	3363.8	3432.5	3423.9	3340.2	3230.7	3129.8	3136.3
32.5°	5203.5	3666.5	3003.2	3119.1	3230.7	3260.8	3202.8	3093.3	2936.6	2805.7	2786.4
35°	5121.9	3445.4	2902.3	3018.2	3097.6	3082.6	3026.8	2885.1	2743.4	2627.5	2608.2
37.5°	5109.0	3256.5	2805.7	2904.4	2949.5	2928.0	2859.3	2739.1	2687.6	2599.6	2588.9
40°	5177.7	3123.4	2706.9	2784.2	2805.7	2788.5	2713.4	2644.7	2691.9	2670.4	2670.4
42.5°	5364.5	3052.5	2618.9	2664.0	2681.2	2694.0	2640.4	2582.4	2640.4	2541.6	2509.4
45°	5660.7	3054.7	2539.5	2545.9	2597.5	2642.5	2606.0	2520.2	2490.1	2292.6	2254.0
47.5°	6096.5	3127.7	2475.1	2434.3	2526.6	2601.7	2550.2	2425.7	2292.6	2161.7	2138.1
50°	6605.3	3258.6	2417.1	2318.4	2432.2	2550.2	2511.6	2365.6	2228.2	2148.8	2133.8
52.5°	7169.8	3423.9	2346.3	2189.6	2316.2	2526.6	2520.2	2357.0	2168.1	2114.5	2101.6
55°	7867.5	3587.1	2258.3	2039.3	2213.2	2507.3	2496.6	2286.2	2155.2	2116.6	2112.3
57.5°	8678.9	3823.2	2131.6	1886.9	2095.1	2427.9	2404.3	2243.3	2112.3	2084.4	2082.3
60°	9986.2	4190.3	1951.3	1747.4	1974.9	2288.3	2318.4	2170.3	2043.6	2037.2	2035.0
62.5°	11705.7	4705.5	1764.5	1603.5	1835.4	2108.0	2193.9	2071.5	1970.6	2002.8	2007.1
65°	14079.9	5139.1	1571.4	1481.2	1680.8	1934.1	2075.8	1979.2	1889.1	1951.3	1951.3
67.5°	15627.6	5147.7	1395.3	1354.5	1524.1	1788.2	1951.3	1869.7	1783.9	1889.1	1893.3
70°	15305.6	4510.1	1249.4	1221.4	1371.7	1631.5	1813.9	1749.5	1650.8	1745.2	1710.9
71°	14786.1	4155.9	1191.4	1169.9	1311.6	1556.3	1749.5	1695.9	1597.1	1659.4	1640.0
72.5°	13957.5	3608.5	1096.9	1101.2	1221.4	1461.9	1659.4	1603.5	1504.8	1539.2	1532.7
75°	11798.0	3151.3	938.1	957.4	1049.7	1300.9	1479.0	1436.1	1335.2	1335.2	1328.8
77.5°	7375.9	2202.5	779.2	790.0	890.9	1114.1	1270.8	1234.3	1137.7	1105.5	1096.9
80°	2752.0	1137.7	609.6	622.5	684.8	878.0	1051.9	1017.5	918.8	882.3	847.9
82.5°	1041.1	571.0	448.7	437.9	504.5	669.8	824.3	783.5	706.2	618.2	592.5
85°	392.8	283.4	274.8	266.2	296.2	397.1	510.9	502.3	420.7	358.5	352.1
87.5°	103.0	92.3	107.3	79.4	83.7	75.1	77.3	32.2	15.0	6.4	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)